

**College of Engineering Chengannur**  
**Department of Computer Engineering**  
**M. Tech. Computer Science(Image Processing)**  
**03CS6902 Mini Project**

**Periodic Report No. 12 (For the period 01/08/2021 to 11/08/2021)**  
**A face emotion recognition method using convolutional neural network and image edge computing**  
**CHN20CSIP08 VISHNU VINOD**

## **1 Work Assigned**

Design presentation and implementation

## **2 Work Done**

1. Completed design presentation
2. Started project implementation and completed the four input image pre-processing operations
  - Implemented Haar classifier for face detection from input image
  - Implemented scale normalization to resize input image
  - Implemented histogram equalization to enhance the input image
  - Implemented Kirsh operator for edge detection

## **3 Work Schedule for Next 10 Days**

1. Development and analysis of proposed convolutional neural network
2. Using VGG16 for emotion recognition
3. Using RESNET50 for emotion recognition

## **4 Assessment of Guide**

Performance assessment & Remarks by the guide: Poor/Acceptable/Satisfactory/Good/Very Good/Excellent  
Arathy UP& dated signature of the guide: